

FIG. 1

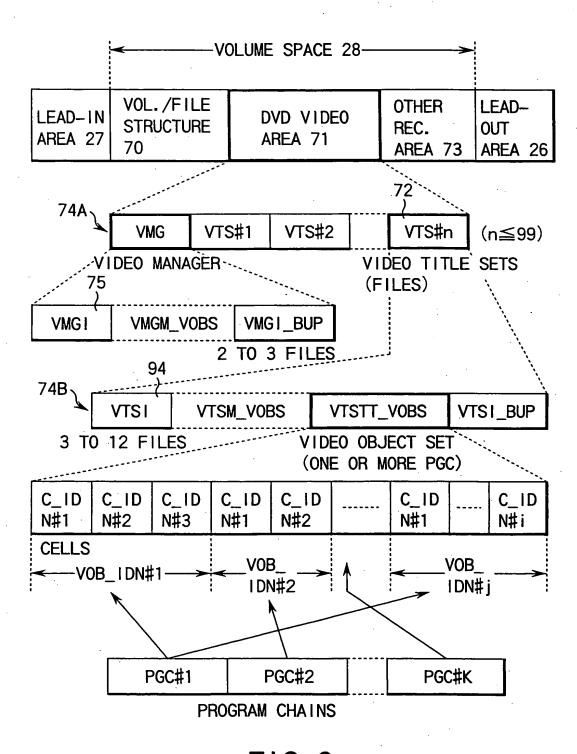


FIG. 2

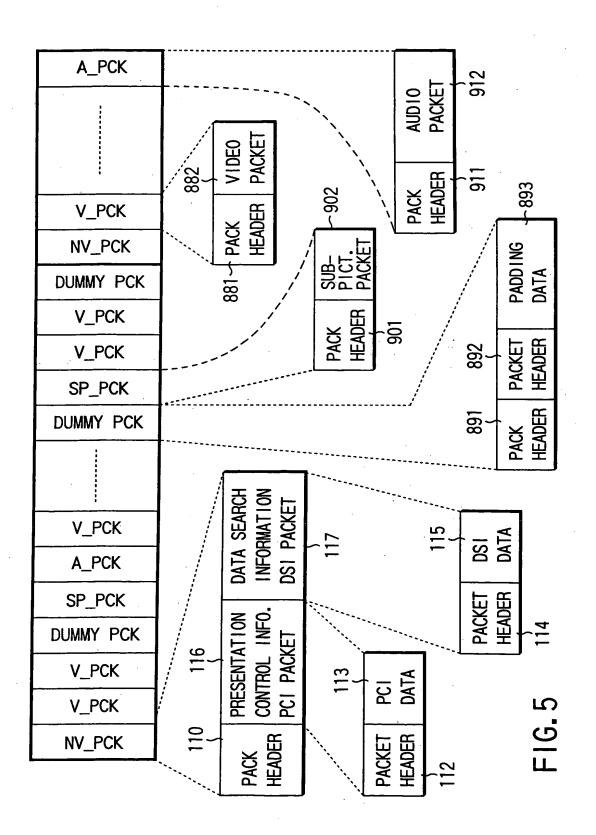
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ROOT DIRECTORY SUB DIRECTORY VIDEO TITLE SET VTS **FILES** VIDEO_TS. IFO (MANAGEMENT DATA VMGI) VIDEO_TS.VOB (MENU DATA VMGM) VIDEO_TS.BUP (BACKUP OF VMGI) VTS_01_0. IF0 (MANAGEMENT DATA VTSI) VTS_01_0.VOB (MENU DATA VTSM) VTS_01_1.VOB (VIDEO DATA OF VTS) VTS_01_2.VOB (VIDEO DATA OF VTS) VTS_01_0.BUP (BACKUP OF VTSI) AUDIO TITLE SET ATS

FIG. 3

	Γ .	٠		7		7		1		1 .	
		1	ECT		<u></u>		ECT		A_PCK	R X	
			VIDEO OBJECT		CELL (C_IDN#i)		VIDEO OBJECT UNIT VOBU			THERE ARE TWO TYPES OF VOBU; ONE WITH NV_PCK, & THE OTHER WITHOUT NV_PCK)	
									V_PCK	語	
								98	NV_PCK	 世	
	OBS)								DUMMY PCK	~>	
	^ <u>_</u>	i	<u> </u>						V_PCK	Ř	
	(VTS						C		V_PCK		
	OBS						VIDEO OBJECT UNIT VOBU		SP_PCK	E E	
	ΈT V						DEO IT V		DUMMY PCK	S S	
	VIDEO OBJECT SET VOBS (VTSTT_VOBS)			CT		CELL (C_IDN#2)					F VOBU;
	DE0		OBJE N#2				OBJE OBU		V_PCK	ES 0	
	/		VIDEO OBJECT VOB_IDN#2		3		VIDEO OBJECT UNIT VOBU	16	A_PCK	TYP	
			5 8		(Nn I A	8-	SP_PCK	OML :	
			CT		DN#1)		СТ	8	DUMMY PCK	ARE	
			VIDEO OBJECT VOB_IDN#1		#NGI_3) -		VIDEÓ OBJECT UNIT VOBU		V_PCK	黑黑	
84	`	83	VIDEO OBJ VOB_IDN#1	84	CELL	85	VIDEÓ OBJ UNIT VOBU	88-	V_PCK	山 山	
			> 0		0		N N	98	NV_PCK	(NOTE:	

FIG. 4



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CONTENTS OF PRESENTATION CONTROL INFORMATION PCI

SYMBOL	CONTENTS
PCI_GI	PCI GENERAL INFORMATION
NSML_AGL I	ANGLE INFO. FOR NONSEAMLESS
HLI	HIGHLIGHT INFORMATION
RECI	RECORDING INFORMATION

FIG.6

CONTENTS OF PRESENTATION CONTROL INFORMATION GENERAL INFORMATION PCI_GI

SYMBOL	CONTENTS
NV_PCK_LBN	LOGICAL BLOCK NUMBER OF NAVIGATION PACK
VOBU_CAT	CATEGORY OF VOBU
RESERVED	RESERVED
VOBU_UOP_CTL	USER OPERATION CONTROL OF VOBU
VOBU_S_PTM	START PTM OF VOBU
VOBU_E_PTM	END PTM OF VOBU
VOBU_SE_E_PTM	END PTM OF SEQUENCE END IN VOBU
C_ELTM	CELL ELAPSE TIME
RESERVED	RESERVED

FIG. 7

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VIDEO TITLE SET VTS 72 (FILE 74B) VIDEO TITLE SET - 94 INFO. VTSI VIDEO OBJECT SET FOR VIDEO TITLE SET MENU VTSM_VOBS VIDEO OBJECT SET FOR VIDEO TITLE SET TITLE VTSTT_V0BS BACKUP OF VIDEO TITLE SET INFO. VTSI BUP

VIDEO TITLE SET INFO. MANAGEMENT TABLE VTSI MAT VIDEO TITLE SET PART OF TITLE SEARCH POINTER TABLE VTS_PTT_SRPT VIDEO TITLE SET PROGRAM CHAIN INFORMATION TABLE VTS_PGCIT VIDEO TITLE SET MENU PGCI UNIT TABLE VTSM PGCI UT VIDEO TITLE SET TIME MAP TABLE VTS TMAPT VIDEO TITLE SET MENU CELL ADDRESS TABLE VTSM_C_ADT VIDEO TITLE SET MENU VIDEO OBJECT UNIT ADDRESS MAP VTSM VOBU ADMAP VIDEO TITLE SET CELL ADDRESS TABLE VTS_C_ADT VIDEO TITLE SET VIDEO OBJECT UNIT ADDRESS MAP VTS_VOBU_ADMAP

FIG. 8

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VIDEO TITLE SET INFO. VTSI 94

VIDEO TITLE SET THO. VIST	J7
VIDEO TITLE SET INFO.	
MANAGEMENT TABLE	
VTSI_MAT	
VIDEO TITLE SET PART_	
OF_TITLE SEARCH POINTER	
TABLE VTS_PTT_SRPT	
VIDEO TITLE SET PROGRAM	
CHAIN INFORMATION TABLE	
VTS_PGCIT	
VIDEO TITLE SET MENU	
PGCI UNIT TABLE	
VTSM_PGCIT_UT	
VIDEO TITLE SET	
TIME MAP TABLE	
VTS_TMAPT	
VIDEO TITLE SET MENU	
CELL ADDRESS TABLE	
VTSM_C_ADT	
VIDEO TITLE SET MENU	
VIDEO OBJECT UNIT	
ADDRESS MAP	
VTSM_VOBU_ADMAP	
VIDEO TITLE SET CELL	
ADDRESS TABLE	
VTS_C_ADT	
VIDEO TITLE SET VIDEO	
OBJECT UNIT ADDRESS	ı
MAP VTS_VOBU_ADMAP	

VIDEO TITLE SET PROGRAM CHAIN INFO. TABLE INFORMATION VTS_GCITI VIDEO TITLE SET PROGRAM CHAIN INFO. SEARCH POINTER #1 VTS_PGCI_SRP#1 VIDEO TITLE SET PROGRAM CHAIN INFO. SEARCH POINTER #n VTS_PGCI_SRP#n VIDEO TITLE SET PROGRAM CHAIN INFO. VTS PGCI VIDEO TITLE SET PROGRAM CHAIN INFO. VTS_PGC1

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STRUCTURE OF PROGRAM CHAIN INFO. PGCI

PROGRAM CHAIN GENERAL INFO. PGC GI
100_01
PROGRAM CHAIN COMMAND TABLE
PGC_CMDT
PROGRAM CHAIN PROGRAM MAP
PGC_PGMAP
CELL PLAYBACK INFO. TABLE
C_PBIT
CELL POSITION INFO. TABLE
C_POSIT

FIG. 10

CONTENTS OF CELL PLAYBACK INFO. TABLE C_PBIT

	CELL PLAYBACK INFO. #1 (C_PBI#1)
	CELL PLAYBACK INFO. #2 (C_PBI#2)
-	CELL PLAYBACK INFO. #n (C_PBI#n)

FIG. 11

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CONTENTS OF CELL PLAYBACK INFORMATION C_PBI

,	
SYMBOL	CONTENTS
C_CAT	CELL CATEGORY
C_PBTM	CELL PLAYBACK TIME
C_FVOBU_SA	START ADR. OF 1ST VOBU IN CELL
C_FILVU_EA	END ADR. OF 1ST ILVU IN CELL
C_LVOBU_SA	START ADR. OF LAST VOBU IN CELL
C_LVOBU_EA	END ADR. OF LAST VOBU IN CELL
CELL TYPE	ERASION LEVEL FLAG 00h=PLAYBACK IS PERMITTED & AUTOMATIC ERASION IS PROHIBITED 01h=PLAYBACK IS PERMITTED & AUTOMATIC ERASION IS PROHIBITED

FIG. 12

	b31 b30	CON b29 b28	ITENTS OF (b27	CELL CATEGO b26	RY C_CAT b25	b24
	CELL BLOCK MODE	CELL BLOCK TYPE	SEAMLESS PLAYBACK FLAG	INTER- LEAVED ALLOCATION FLAG	STS DISCONTI-	SEAMLESS ANGLE CHANGE FLAG
	b23	b2	22 t	o21 b2	0	b16
{	RESERVE	CELL BACK	PLAY- ACC MODE RES	ESS TRICTION FL	_AG CI	ELL TYPE
	b15					b8
			CELL	STILL TIME		
	b7				··· waa -a	b0
	CELL COMMAND NUMBER					

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CONTENTS OF PROGRAM CHAIN GENERAL INFO. PGC_GI

SYMBOL	CONTENTS
PGC_CNT	PGC CONTENTS
PGC_PB_TM	PGC PLAYBACK TIME
PGC_UOP_CTL	PGC USER OPERATION CONTROL
PGC_AST_CTLT	PGC AUDIO STREAM CONTROL TABLE
PGC_SPST_CTLT	PGC SUB-PICT. STREAM CONTROL TABLE
PGC_NV_CTL	PGC NAVIGATION CONTROL
PGC_SP_PLT	PGC SUB-PICTURE PALETTE
PGC_CMDT_SA	START ADR. OF PGC COMMAND TABLE
PGC_PGMAP_SA	START ADR. OF PROGRAM MAP
C_PBIT_SA	START ADR. OF CELL PLAYBACK TABLE
C_POSIT_SA	START ADR. OF CELL POS. INFO. TABLE

FIG. 14

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CONTENTS OF PGC GENERAL INFO. PGC_GI FOR TRASH PGC

	— ·
SYMBOL	CONTENTS
PGC_CNT	PGC CONTENTS
PGC_PB_TM	PGC PLAYBACK TIME
PGC_UOP_CTL	PGC USER OPERATION CONTROL
PGC_AST_CTLT	PGC AUDIO STREAM CONTROL TABLE
PGC_SPST_CTLT	PGC SUB-PICT. STREAM CONTROL TABLE
PGC_NV_CTL	PGC NAVIGATION CONTROL
PGC_SP_PLT	PGC SUB-PICTURE PALETTE
PGC_CMDT_SA	START ADR. OF PGC COMMAND TABLE
PGC_PGMAP_SA	START ADR. OF PROGRAM MAP
C_PBIT_SA	START ADR. OF CELL PLAYBACK TABLE
C_POSIT_SA	START ADR. OF CELL POS. INFO. TABLE
TRASH_PGC_FLG	TRASH PGC FLAG 01h=TRASH PGC 00h=CONVENTIONAL PGC

FIG. 15

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CONTENTS OF C_PBI FOR TRASH PGC

SYMBOL	CONTENTS
C_CAT	PGC CATEGORY
C_PBTM	PGC PLAYBACK TIME
C_FV0BU_SA	START ADR. OF 1ST VOBU IN CELL
C_FILVU_EA	END ADR. OF 1ST ILVU IN CELL
C_LVOBU_SA	START ADR. OF LAST VOBU IN CELL
C_LVOBU_EA	END ADR. OF LAST VOBU IN CELL
PGC_N	ORIGINAL PGC NUMBER OF CURRENT CELL
C_ID_N	CORRESPONDING CELL NUMBER OF ORIGINAL PGC

FIG. 16

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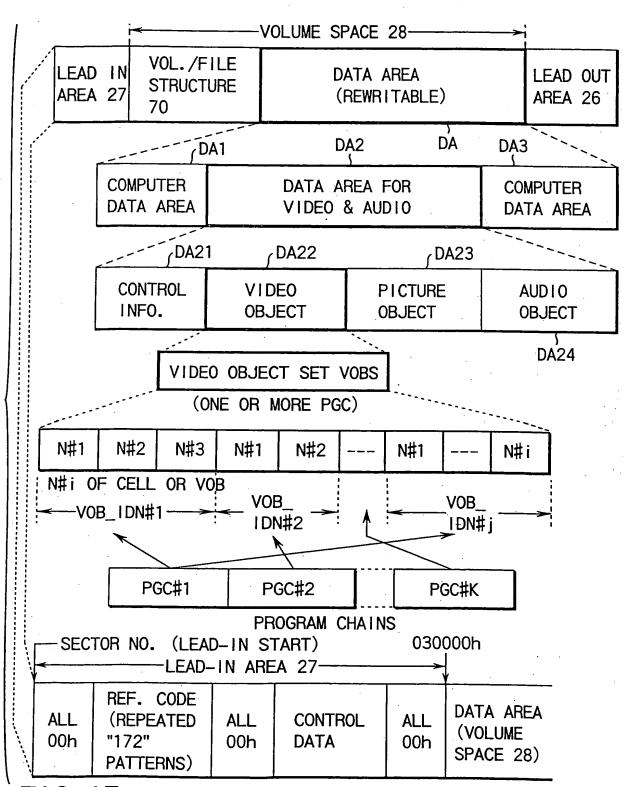


FIG. 17

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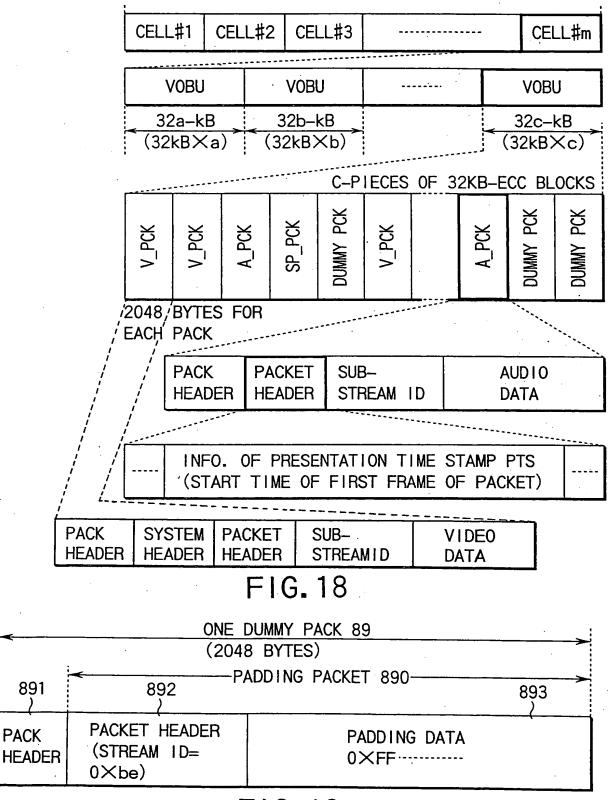


FIG. 19

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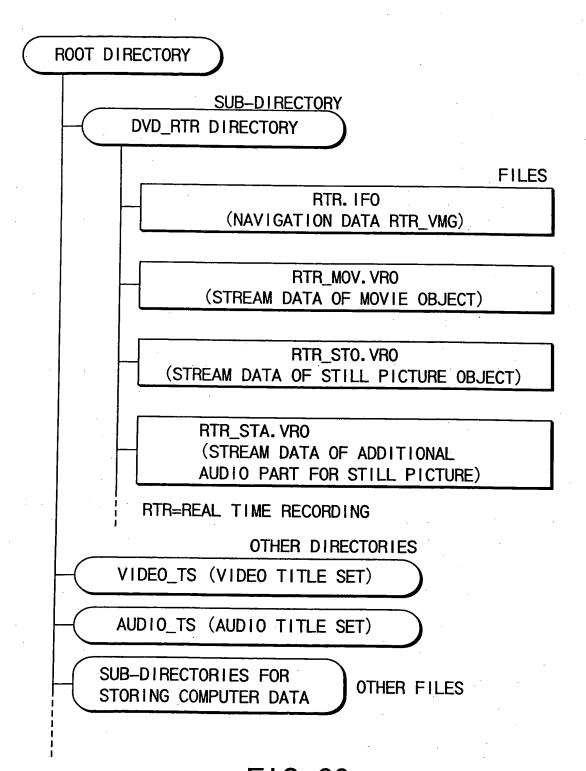


FIG. 20

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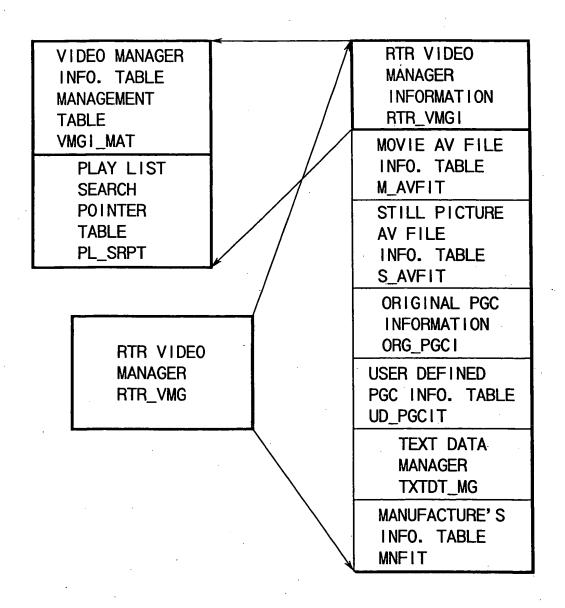


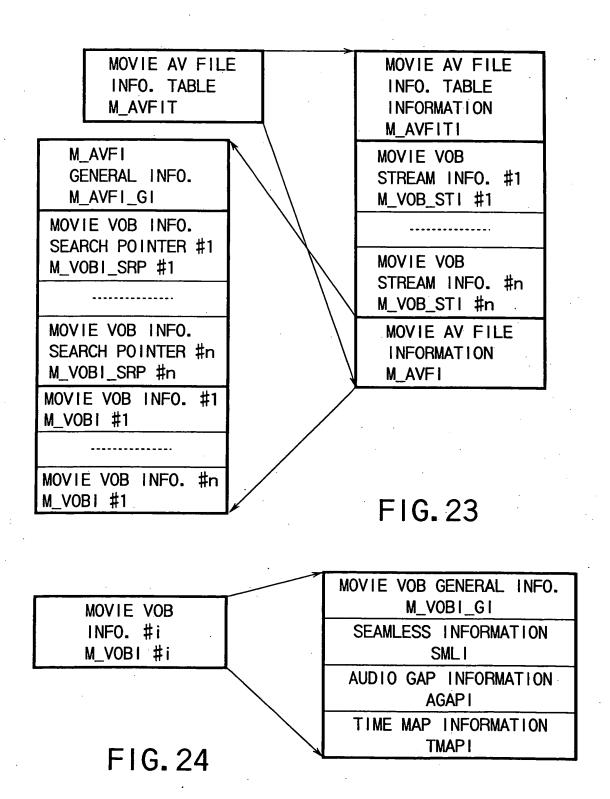
FIG. 21

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CONTENTS OF VMGI_MAT

	TOTAL TIME TOTAL TIME TOTAL TOTAL TIME TOTAL
FIELD NAME	CONTENTS
VMG_ID	VMG IDENTIFIER
RTR_VNG_EA	END ADDRESS OF RTR_VMG
RESERVED	RESERVED
VMGI_EA	END ADDRESS OF VMG1
VERN	VERSION NUMBER OF DVD SPEC. FOR VIDEO RECORDING
RESERVED	RESERVED
TM_ZONE	TIME ZONE
STILL_TM	STILL TIME FOR STILL PICTURES
CHRS	CHARACTER SET CODE FOR PRIMARY TEXT
RSM_MRK I	RESUME MARKER INFORMATION
REP_PICTI	DISC REPRESENTATIVE PICTURE INFORMATION
RESERVED	RESERVED
M_AVFIT_SA	START ADDRESS OF M_AVFIT
S_AVFIT_SA	START ADDRESS OF S_AVFIT
RESERVED	RESERVED
ORG_PGCI_SA	START ADDRESS OF ORG_PGC1
UD_PGCIT_SA	START ADDRESS OF UD_PGCIT
TXTDT_MG_SA	START ADDRESS OF TXTDT_MG
MNFIT_SA	START ADDRESS OF MNFIT
RESERVED	RESERVED
	· · · · · · · · · · · · · · · · · · ·

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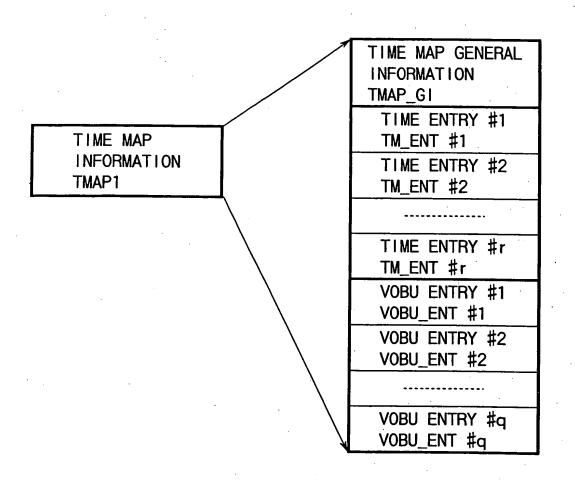


FIG. 25

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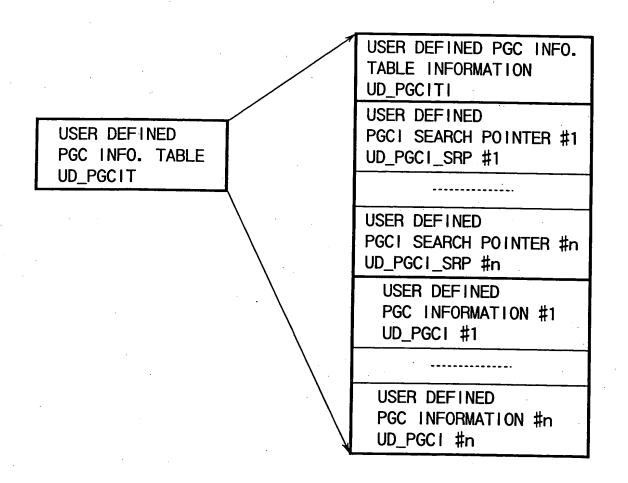


FIG. 26

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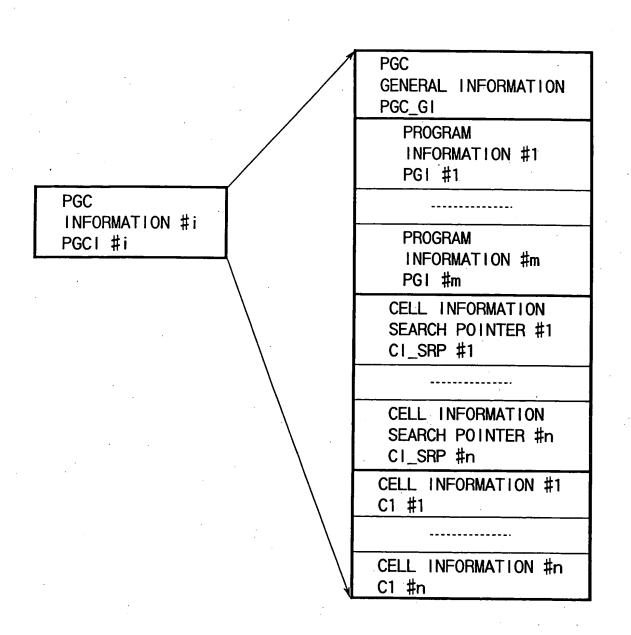


FIG. 27

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CONTENTS OF PGC_GI

FIELD NAME	CONTENTS		
RESERVED	RESERVED		
PG_Ns	NUMBER OF PROGRAMS		
CI_SRP_Ns	NUMBER OF CI SEARCH POINTERS		
TRASH_PGC_FLG	TRASH PGC FLAG 01h=TRASH PGC 00h=CONVENTIONAL PGC		

FIG. 28

CONTENTS OF PGI

FIELD NAME	CONTENTS			
RESERVED	RESERVED			
PG_TY	PROGRAM TYPE			
C_Ns	NUMBER OF CELLS IN PROGRAM			
PRM_TXT1	PRIMARY TEXT INFORMATION			
IT_TXT_SRPN	ITEM TEXT SRP NUMBER			
THM_PTRI	THM_PTRI THUMBNAIL POINTER INFORMATION			

FIG. 29

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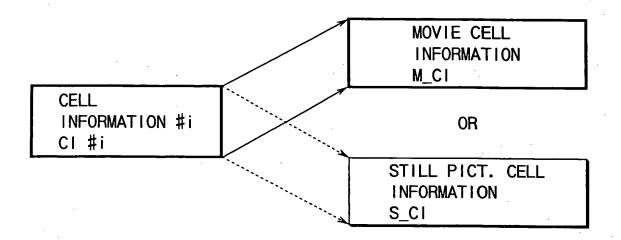


FIG. 30

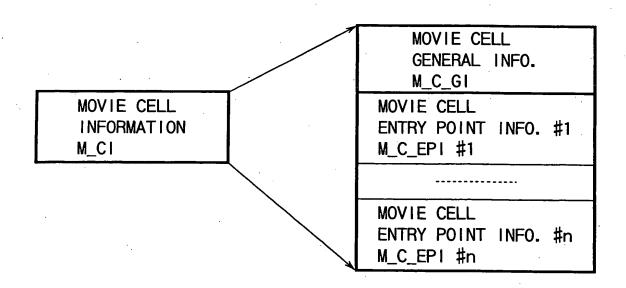


FIG. 31

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CONTENTS OF M_C_GI

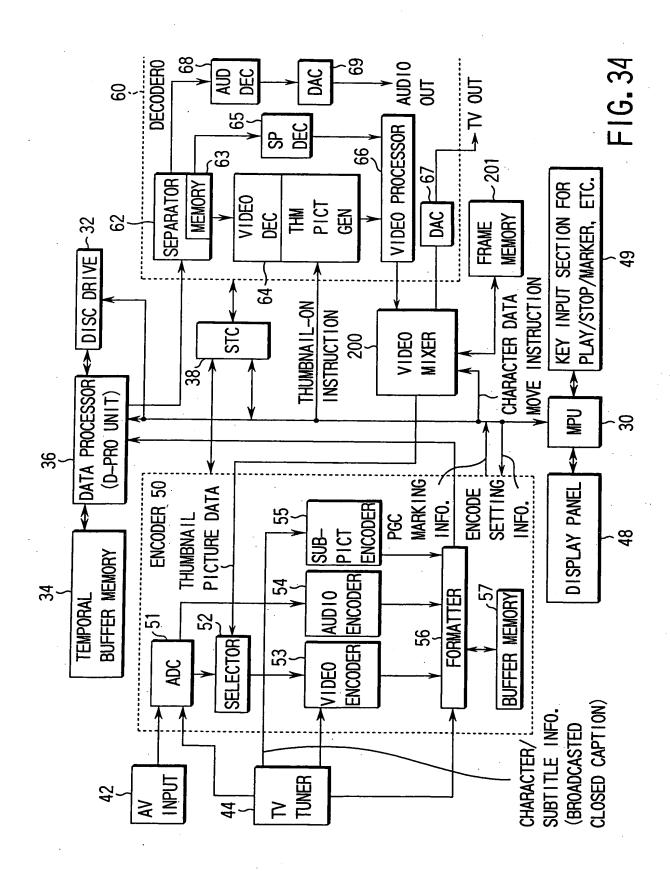
FIELD NAME	CONTENTS			
RESERVED	RESERVED			
C_TY	CELL TYPE			
M_VOBI_SRPN	MOVIE VOBI SRP NUMBER			
C_EPI_Ns	NUMBER OF CELL ENTRY POINT INFO.			
C_V_S_PTM	PRESENTATION START TIME OF CELL			
C_V_E_PTM	PRESENTATION END TIME OF CELL			

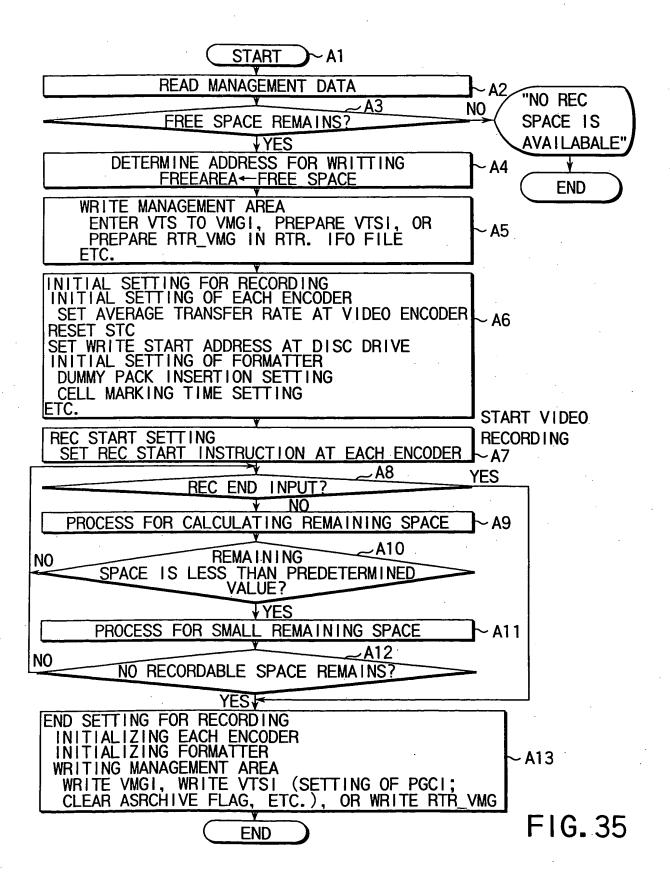
FIG. 32

CONTENTS OF M_C_EPI

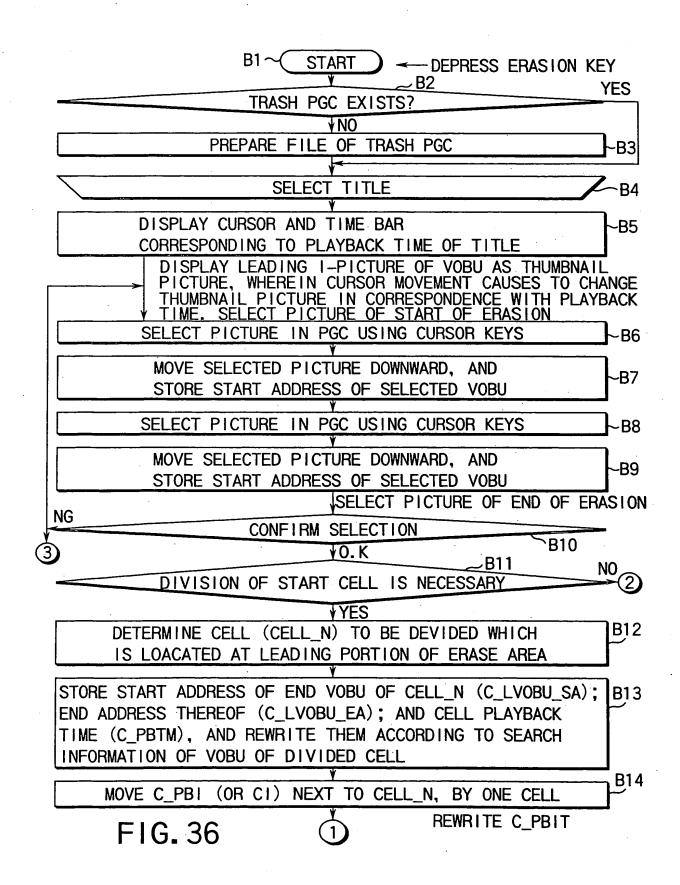
	FIELD NAME	CONTENTS		ENTS		
	EP_TY	ENTRY POINT TYPE		INT TYPE		
	EP_PTM	PTM OF ENTRY POINT				
	PRM_TXT1	PRIMARY TEXT INFORMATION				
ERASION LEVEL FLAG			INFORMATION TYPE			
TRASH PGC INFORMATION				INFORMATION DATE		
(ORIGINAL PGC NUMBER PGC_N & CORRESPONDING CELL NUMBER C_ID_N OF ORIGINAL PGC)		CHARACTER INFO. (CONTENTS INFO.)				

FIG. 33

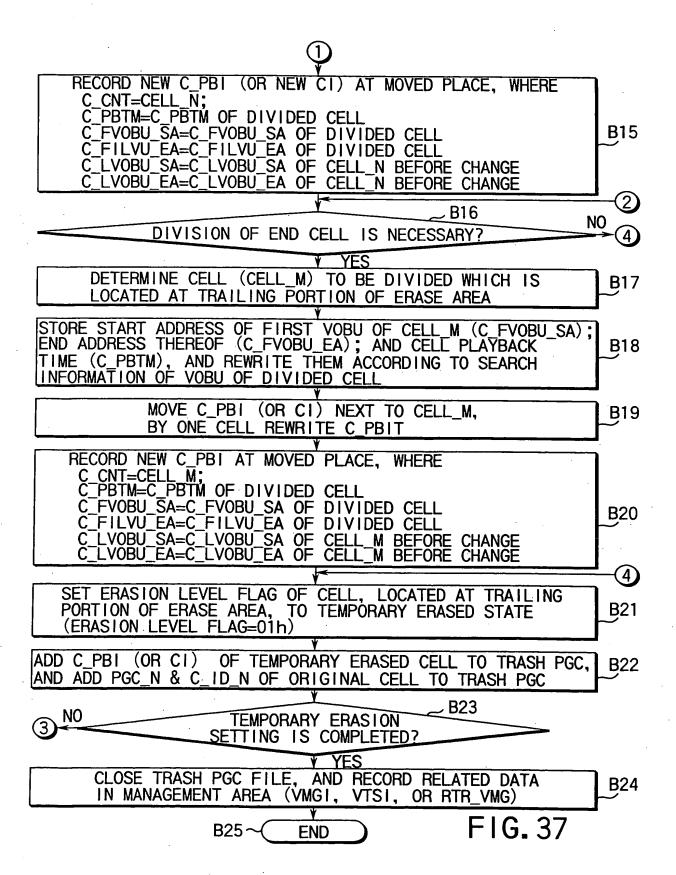


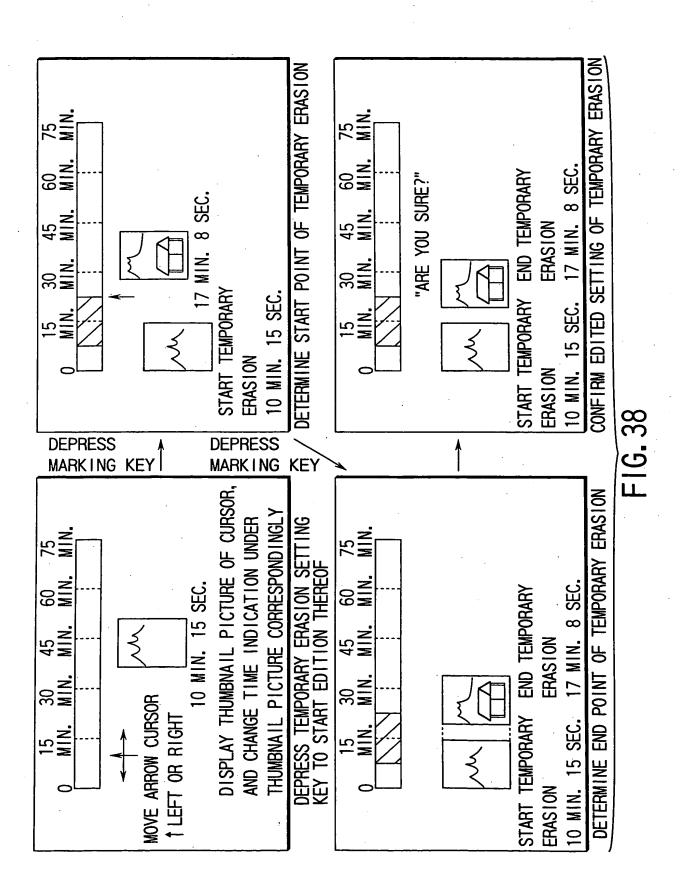


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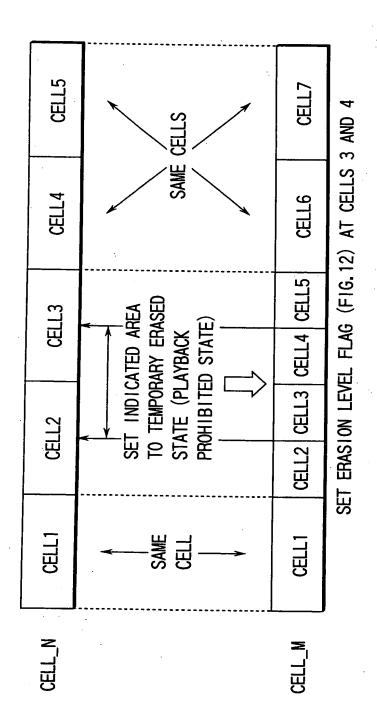
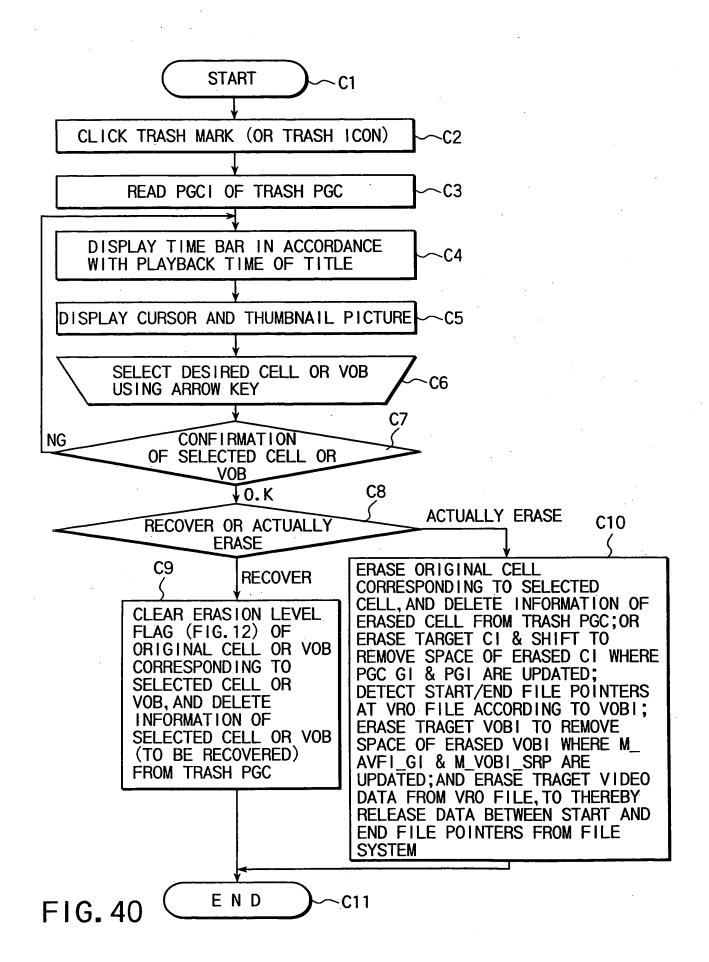
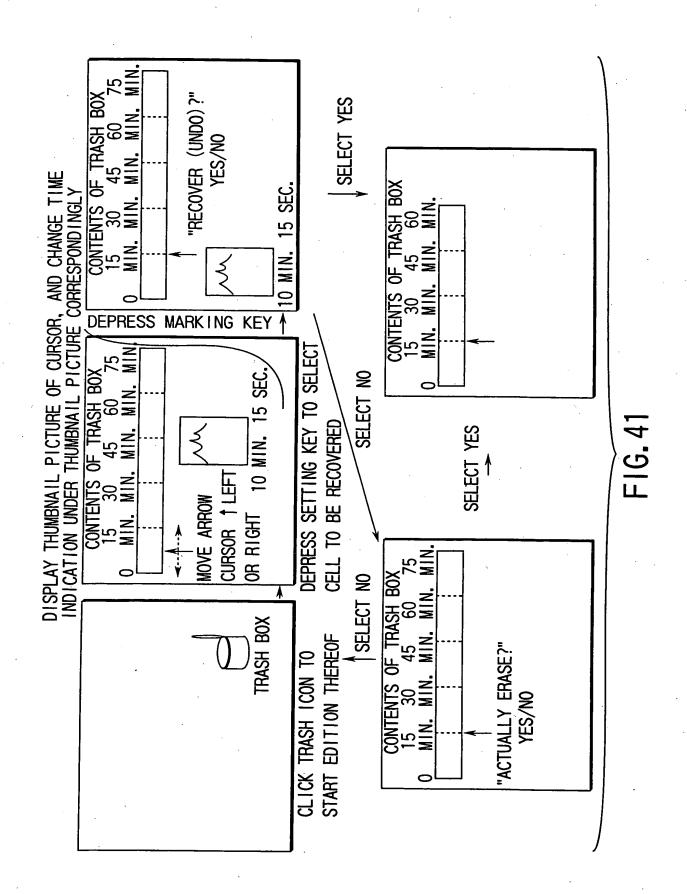
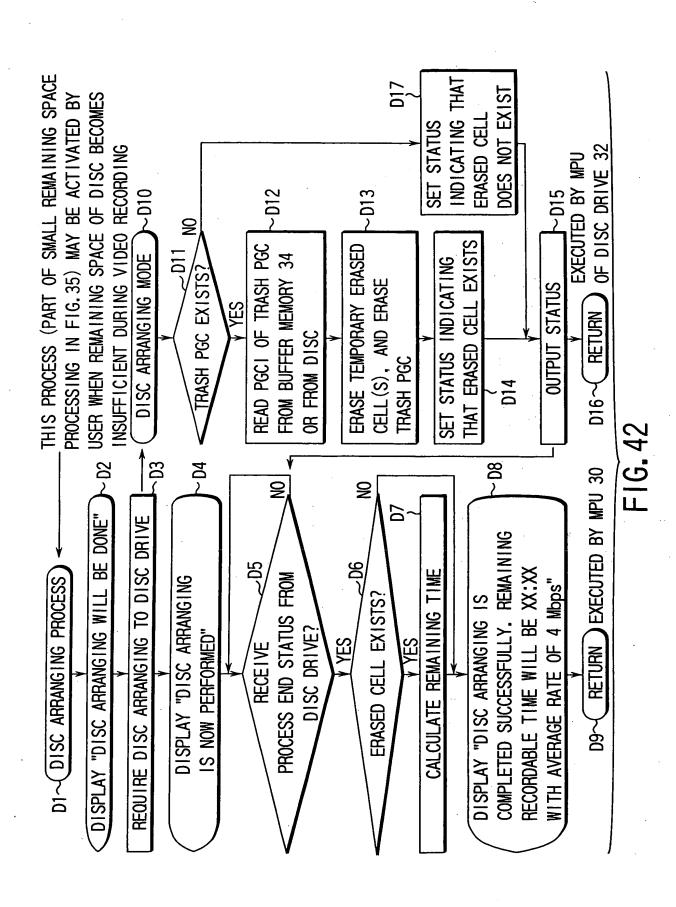


FIG. 39

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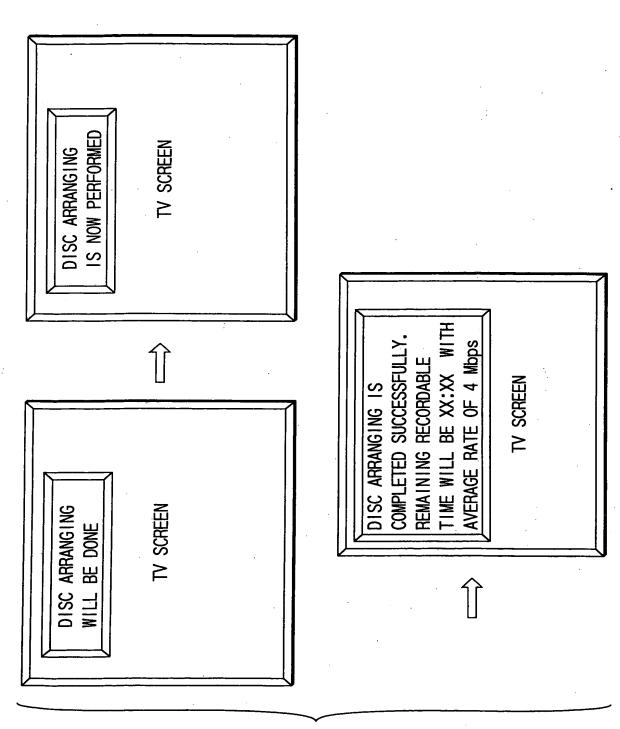
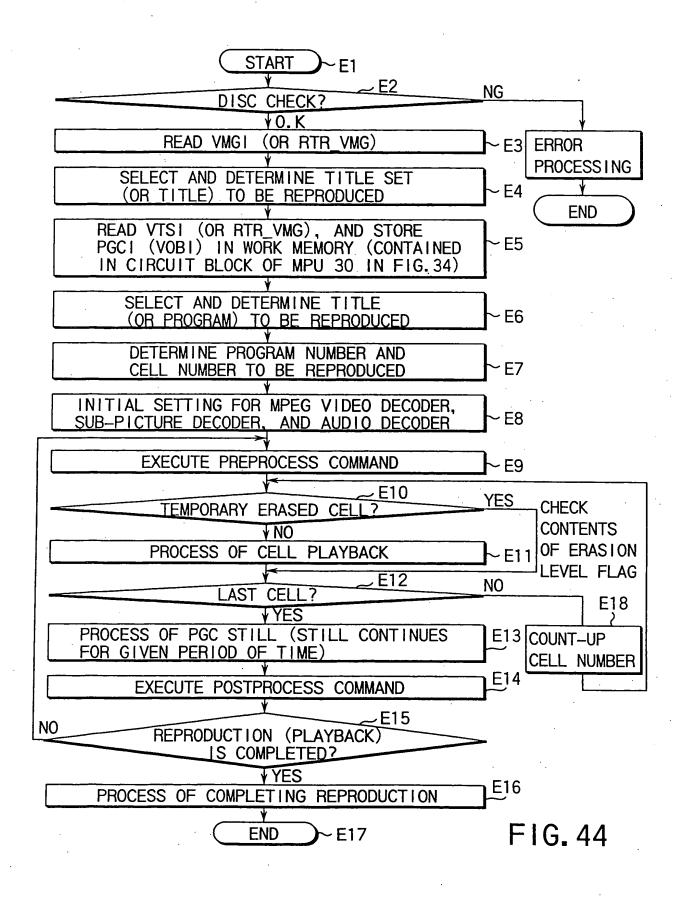
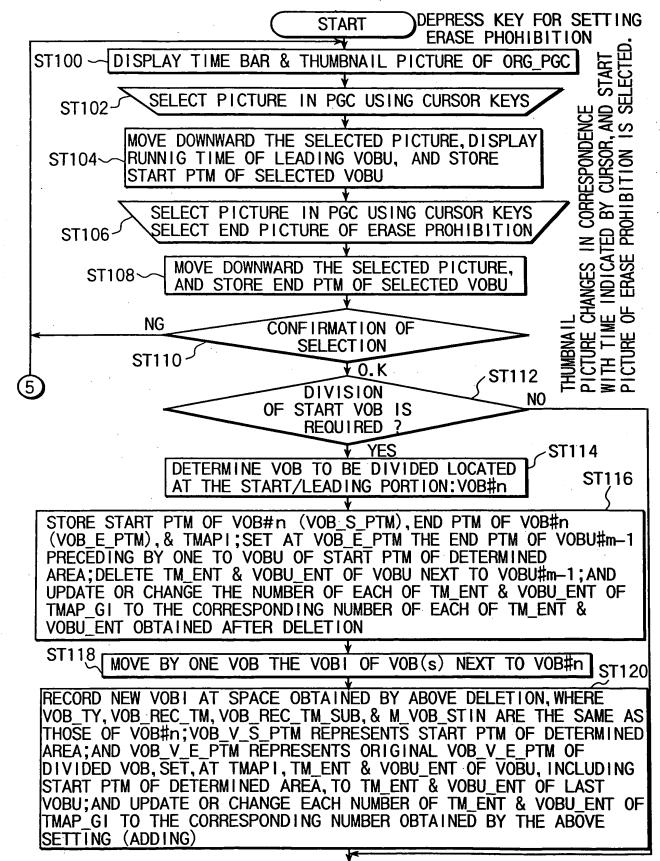


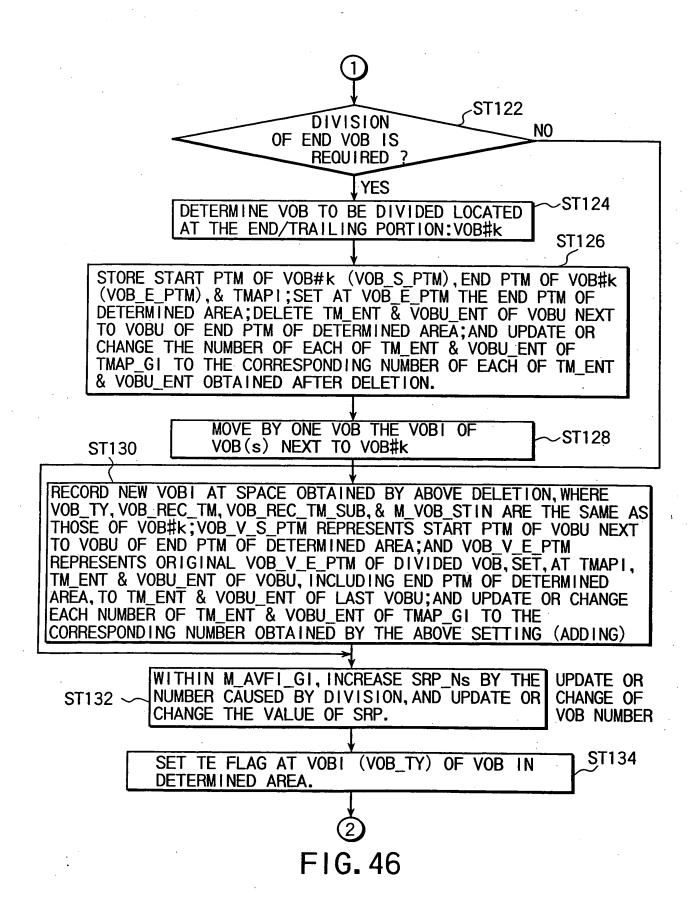
FIG. 43

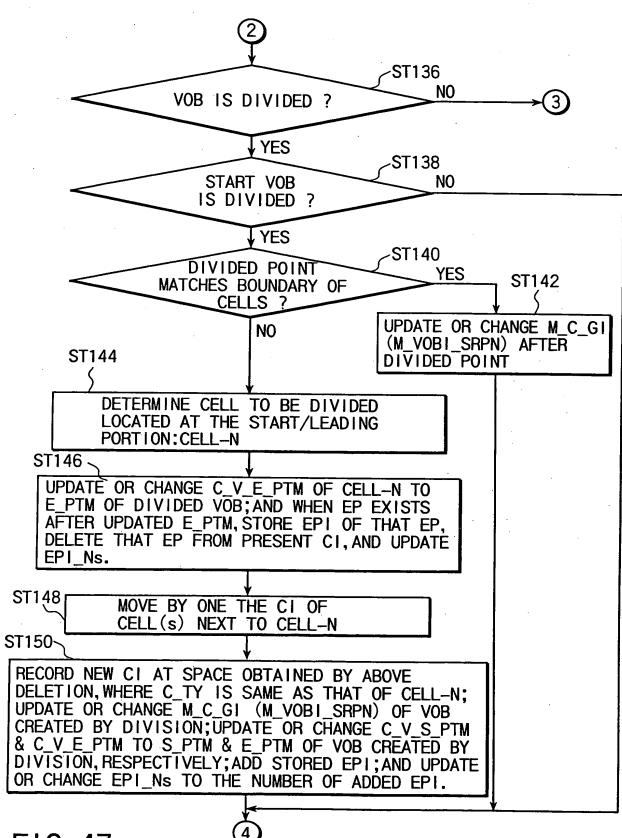
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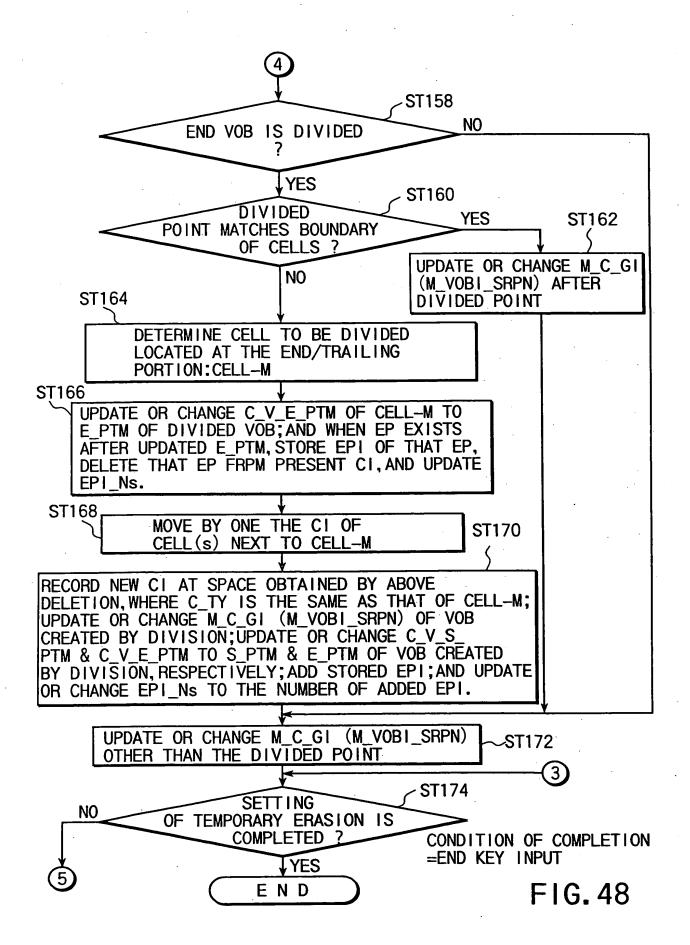


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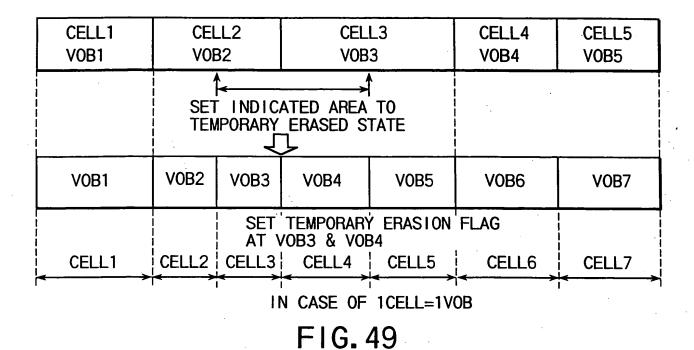




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CELL4 | CELL5 CELL2 | CELL3 | CELL1 CELL6 CELL7 **V0B1** VOB2 VOB3 **V0B4** VOB5 SET INDICATED AREA TO TEMPORARYB ERESED STATE **V0B2 V0B4** VOB1 VOB3 VOB5 VOB6 VOB7 SET TEMPORARY ERASION FLAG AT VOB3 & VOB4 CELL2 CELL4 CELL1 CELL3 CELL5 CELL6 CELL7 IN CASE OF 1CELL≠1VOB

FIG. 50